

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 14385519		Catalog # : 07512ET3H405T-W22G	
Frame	: 404/5T			Locked rotor time	: 30s (cold) 17s (hot)	
Output	: 75 HP (55 kW)			Temperature rise	: 80 K	
Poles	: 6			Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 575 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 67.9 A			Protection degree	: IP55	
L. R. Amperes	: 435 A			Cooling method	: IC411 - TEFC	
LRC	: 6.4x(Code G)			Mounting	: F-1	
No load current	: 24.0 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1184 rpm			Noise level ²	: 68.0 dB(A)	
Slip	: 1.33 %			Starting method	: Direct On Line	
Rated torque	: 333 ft.lb			Approx. weight ³	: 1089 lb	
Locked rotor torque	: 229 %					
Breakdown torque	: 229 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 40.2 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.0	94.1	94.5	94.5	Max. traction	: 1752 lb
Power Factor	0.49	0.74	0.83	0.86	Max. compression	: 2841 lb
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
6.3	5.0	4.5	3.5	2.3	1.7	1.1
			Drive end	Non drive end		
Bearing type	:			6316 C3	6314 C3	
Sealing	:			WSeal	WSeal	
Lubrication interval	:			16000 h	17000 h	
Lubricant amount	:			34 g	27 g	
Lubricant type	:			Mobil Polyrex EM		
Notes:						
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	26/03/2024				1 / 1	